

Content D

Part D Nature Phenomena and Innovative Engineering		
Wang Jiamin, Ding Zhaolei, Huang Chunzhen, Jiang Zhaoliang	Research on the temperature field in refrigerated truck carriage with fresh pork in it	7
Chen Shuang-rui, Yan Quan-sheng	A method of measuring the cable tension force with the application of smart phones	11
Luo Jiayuan, Shi Chengxiang	Numerical simulation of aluminum alloy quenching by direct thermal-mechanical coupling method and evolution of the elastic-plastic area	19
Liwen Wang, Lu Zhang	Internal fault diagnosis of aircraft engine fuel metering unit based on artificial immune algorithm	24
Wang Donglin, Jia Yusheng	Analysis on the influence of shield construction to pile group of hefei high-speed rail south station	31
Liu Aimin, Zhang Jinhua, Wu Zhiheng	Intelligent Control Strategy and Proposed Motor Drive Operating Mechanism for High Voltage Disconnecting Switch	36
Liu Guangwei, Zhao Xingang, Xin Zhao, Zhang Fengge	Loss Calculation for High Speed Permanent Magnet Claw Pole Outer Rotor Machine	42
Dedi Zhang	Study on the energy storage of super capacitor	47
Zhang Hongxin, Duan Kanghong, Zhang Xiaobo	Development and Application Study of Marine Data Managing and Sharing Platform	51
Haoming Zhang, Yinghai Wang	Realization of micromouse consecutive turning based on STM32	58
Jianbin Du	Simulation analysis and system testing of multi-core processor 16-channel high-density computer software made in China	64
Ming Ding	Design of rotor air-operated pump mechanism and dynamics analysis	68
Yining Wang, Han Wu, Xiaojuan Huang, Shuihui Cao, Hui Wang, Jingyun Ouyang	Foam flooding reservoir simulation algorithm improvement and application	72
Linlin Xing, Peixin Gao	Comparative analysis of the application of aerodynamics impedance algorithm in high and low terrain	79
Jinping Li, Zhifeng Liu, Zhenhua Wei	A method applied the boundary of sea and land temperature retrieval for atmospheric information correction	83
Zhifeng Liu, Bin Tang, Zhenhua Wei, Jinping Li	Design and implementation of the nuclear logging instrument controlling and monitoring system based on MSComm	88
Wenhua Mao	Analysis and study on acoustical quality of a piano soundboard based on ANSYS	92
Jiang Dong	Study on badminton system with auxiliary training based on Kinect motion capture	97
Lin Ma	Design and implementation of an Android-based numbered musical notation editor	101
Wenju Ji, Jianwen Wang	Fault diagnosis for wind power generation system based on association rule mining	105
Author's Index		109
Cumulative Index		110



